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GENERAL AVIATION STATISTICAL DATABOOK

1985 Edition

FOREWORD

The GENERAL AVIATION STATISTICAL DATABOOK has provided the answers to hundreds of inquiries about the general aviation industry.

For 1985, the DATABOOK presents more detailed information on U.S. general aviation exports on Page 8. The data track U.S. aircraft exports since 1965 in number, percentage of production, value and percentage of total factory net billings. This perspective is important in light of severely depressed exports for U.S. general aviation products since 1980 and current international trade issues in aviation.

A second new chart on Page 8 tracks exports since 1972 by type of aircraft: single, piston twin, turboprop or jet.

As always, we at GAMA are interested in making your analysis of general aviation as accurate and complete as possible. If you need more information or assistance, call or write.

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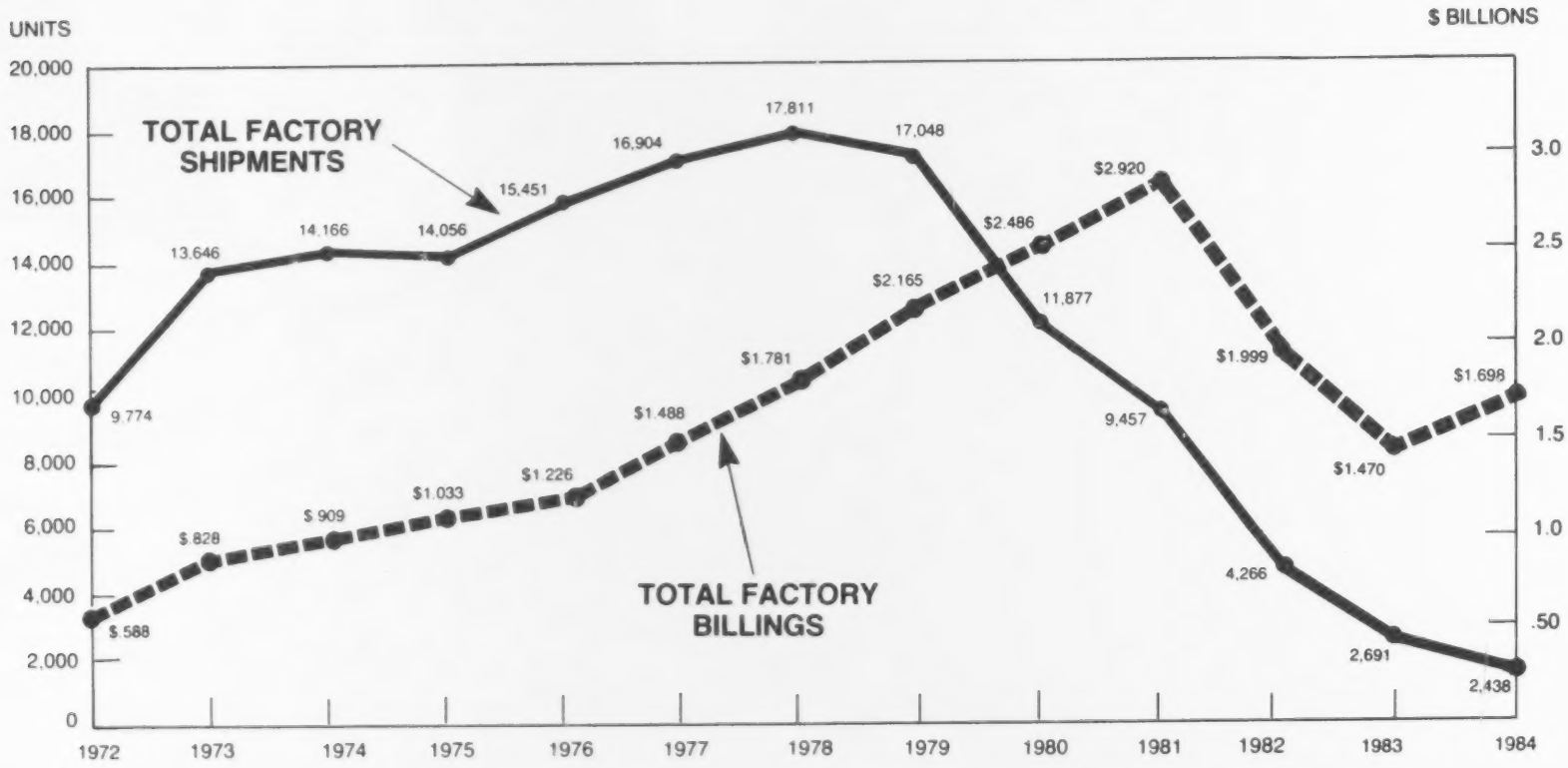
SHIPMENT STATISTICS

Annual Shipments of New U.S. General Aviation Aircraft by Units Shipped, Number of Companies Reporting, and Factory Net Billings

Year	Units Shipped	Companies Reporting	Factory Net Billings (Millions)
1946	35,000	—	$ 110.0
1947	15,594	15	57.9
1948	7,037	12	32.4
1949	3,405	11	17.7
1950	3,386	13	19.1
1951	2,302	12	16.8
1952	3,058	8	26.8
1953	3,788	7	34.4
1954	3,071	7	43.4
1955	4,434	7	68.2
1956	6,733	8	103.7
1957	6,118	9	99.6
1958	6,414	10	101.9
1959	7,689	9	129.8
1960	7,588	8	151.2
1961	6,778	8	124.3
1962	6,697	7	136.8
1963	7,569	7	153.4
1964	9,336	8	198.8
1965	11,852	8	318.2
1966	15,768	10	444.9
1967	13,577	14	359.6
1968	13,698	14	425.7
1969	12,457	14	584.5
1970	7,292	13	337.0
1971	7,466	11	321.5
1972	9,774	12	557.6
1973	13,646	12	828.1
1974	14,166	12	909.4
1975	14,056	12	1,032.9
1976	15,451	12	1,225.5
1977	16,904	12	1,488.1
1978	17,811	12	1,781.2
1979	17,048	12	2,165.0
1980	11,877	12	2,486.2
1981	9,457	12	2,919.9
1982	4,266	11	1,999.5
1983	2,691	10	1,469.5
1984	2,438	9	1,698.1

Source: GAMA

General Aviation Unit Shipments/Billings



. . . AND BILLINGS

U.S. General Aviation Aircraft Shipments by Type of Aircraft

Year	Total	Single Engine	Multi-Engine	Total Piston	Turbo-Prop	Jet
1962	6,697	5,690	1,007	6,697	-0-	-0-
1963	7,569	6,248	1,321	7,569	-0-	-0-
1964	9,336	7,718	1,606	9,324	9	3
1965	11,852	9,873	1,780	11,653	87	112
1966	15,768	13,250	2,192	15,442	165	161
1967	13,577	11,557	1,773	13,330	149	98
1968	13,698	11,398	1,959	13,357	248	93
1969	12,457	10,054	2,078	12,132	214	111
1970	7,292	5,942	1,159	7,101	135	56
1971	7,466	6,287	1,043	7,330	89	47
1972	9,774	7,913	1,548	9,446	179	134
1973	13,646	10,788	2,413	13,193	247	198
1974	14,166	11,579	2,135	13,697	250	202
1975	14,056	11,441	2,116	13,555	305	194
1976	15,451	12,785	2,120	14,905	359	187
1977	16,904	14,054	2,195	16,249	428	227
1978	17,811	14,398	2,634	17,032	548	231
1979	17,048	13,286	2,843	16,129	639	282
1980	11,877	8,640	2,116	10,756	778	326
1981	9,457	6,608	1,542	8,150	918	389
1982	4,266	2,871	678	3,549	458	259
1983	2,691	1,811	417	2,228	321	142
1984	2,438	1,621	374	1,995	272	171

Source: GAMA

U.S. General Aviation Aircraft Shipments by Year and Month

YEAR/ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
1962	555	578	649	587	601	556	452	436	441	676	527	639
1963	588	538	680	709	653	638	548	553	524	684	604	850
1964	725	696	735	834	836	833	745	575	614	1,102	718	923
1965	866	752	1,024	1,082	948	978	985	1,040	834	1,112	1,120	1,111
*1966	1,187	1,173	1,495	1,385	1,485	1,396	1,093	1,266	1,522	1,073	1,301	1,211
*1967	1,163	1,025	1,204	1,097	1,199	1,184	988	886	927	1,403	1,133	1,275
*1968	1,254	1,191	1,216	1,281	1,250	1,014	908	916	1,458	1,075	1,008	985
*1969	917	1,038	1,342	1,364	1,193	1,035	917	738	1,170	1,192	722	779
*1970	604	617	708	737	719	643	457	505	787	520	475	505
*1971	507	520	744	716	587	599	472	643	788	579	522	669
1972	590	688	879	828	857	879	694	853	870	799	894	943
1973	953	1,043	1,250	1,168	1,242	1,145	1,044	1,322	1,076	1,166	997	1,240
1974	1,139	1,141	1,213	1,432	1,131	1,013	1,041	1,226	1,221	1,243	1,232	1,134
1975	1,146	1,246	1,385	1,239	1,164	1,159	1,032	1,043	1,216	1,148	1,144	1,134
1976	1,215	1,288	1,446	1,439	1,424	1,296	924	1,227	1,328	1,306	1,269	1,289
1977	1,288	1,297	1,539	1,496	1,527	1,490	1,151	1,341	1,493	1,177	1,527	1,578
1978	1,145	1,419	1,612	1,489	1,676	1,456	1,250	1,845	1,577	1,432	1,476	1,434
1979	1,194	1,354	1,711	1,623	1,542	1,437	1,250	1,753	1,423	1,153	1,363	1,245
1980	1,286	1,168	1,058	993	877	886	802	966	1,028	1,092	892	829
1981	659	750	980	960	802	869	743	847	939	555	644	709
1982	384	458	548	395	378	353	319	270	301	249	254	357
1983	213	223	223	228	229	252	204	247	266	148	177	281
1984	143	172	209	216	160	187	141	233	310	192	193	282

Source: GAMA

*Monthly figures do not sum to annual total because some manufacturers reported annual shipments only.

U.S. General Aviation Aircraft Exports

Year	Units Exported	% of Total Production	Factory Net Billings (Millions)	% of Total Dollars
1965	2,325	19.6%	$ 61.2	19.2%
1966	2,903	18.4%	75.4	16.9%
1967	3,035	22.4%	76.5	21.3%
1968	2,803	20.5%	91.5	21.5%
1969	2,623	21.1%	107.1	18.3%
1970	2,170	29.8%	98.9	29.3%
1971	1,854	24.8%	95.6	29.7%
1972	2,254	23.1%	137.9	24.7%
1973	3,530	25.9%	230.2	27.8%
1974	4,248	30.0%	287.5	31.6%
1975	3,512	25.0%	308.1	29.8%
1976	3,539	22.9%	331.2	27.0%
1977	3,611	21.4%	354.5	23.8%
1978	3,612	20.3%	486.7	27.3%
1979	3,995	23.4%	600.9	27.8%
1980	3,555	29.9%	756.4	30.4%
1981	2,270	24.0%	749.0	25.7%
1982	1,162	27.2%	650.2	32.5%
1983	513	19.1%	316.5	21.5%
1984	336	13.8%	261.0	15.4%

Source: GAMA

U.S. General Aviation Aircraft Exports by Type

Year	Single Engine	Multi-Engine	Turboprop	Turbojet
1972	1715	455	55	29
1973	2674	732	58	66
1974	3371	732	75	70
1975	2680	644	122	66
1976	2704	669	114	52
1977	2835	594	126	56
1978	2712	652	166	82
1979	2942	774	181	98
1980	2565	635	245	110
1981	1546	363	259	102
1982	718	227	135	82
1983	298	119	66	30
1984	199	82	24	31

Source: GAMA

U.S. GENERAL AVIATION FLEET AND FLIGHT ACTIVITY

Type and Primary Use of Active General Aviation Aircraft in 1983

Aircraft Type	Active GA Aircraft	Executive	Business	Personal	Instructional	Aerial Application	Aerial Observation	Other Work	Commuter Air Carrier	Air Taxi	Rental	Other
Total All Aircraft	**213,293**	17,064	45,025	101,484	15,450	7,051	4,023	2,392	1,479	6,857	7,674	4,791
Piston—Total	191,480	8,552	43,581	96,545	14,396	6,220	3,413	1,659	1,175	5,114	7,369	3,454
One-Engine	166,427	3,152	33,173	93,698	13,662	5,912	3,120	1,625	318	2,263	6,833	2,671
Two-Engine	24,910	5,398	10,401	2,848	735	252	291	29	847	2,847	510	751
Other Piston	143	3	7	0	0	57	1	5	10	4	25	32
Turboprop—Total	5,453	3,308	775	62	0	116	4	38	286	551	37	279
Two-Engine	5,311	3,304	775	60	0	0	0	38	281	547	37	269
Other Turboprop	142	4	0	1	0	116	4	0	5	3	0	9
Turbojet—Total	3,898	3,425	217	75	0	0	25	0	0	45	0	110
Two-Engine	3,447	3,116	156	25	0	0	25	0	0	45	0	78
Other Turbojet	451	309	61	50	0	0	0	0	0	0	0	31
Rotocraft—Total	6,540	1,711	383	562	481	715	463	519	18	1,137	8	543
Piston	2,541	35	179	539	354	675	391	150	2	32	8	176
Turbine	3,998	1,677	203	22	127	40	72	369	17	1,105	0	367
Other—Total	5,923	68	69	4,240	572	0	118	177	0	11	261	406

Source: FAA

NOTE: Row and column summation may differ from printed totals due to estimation procedures.

U.S. Active General Aviation Aircraft by Region and State (as of December 31, year indicated)

	1983	1982	1981		1983	1982	1981
ALASKAN	**6,075**	**6,924**	**6,450**	**NORTHWEST MOUNTAIN**	**22,064**	**22,530**	**24,648**
Alaska	6,075	6,294	6,450	Colorado	4,407	4,982	5,498
				Idaho	2,146	2,376	2,349
CENTRAL	**12,720**	**13,069**	**14,489**	Montana	2,538	2,193	2,463
Iowa	3,165	3,455	3,747	Oregon	4,689	4,789	5,640
Kansas	4,519	3,534	3,932	Utah	1,440	1,196	1,508
Missouri	3,858	4,540	4,465	Washington	5,645	5,532	6,048
Nebraska	1,178	1,539	2,343	Wyoming	1,192	1,462	1,142
EASTERN	**24,006**	**23,226**	**21,988**	**SOUTHERN**	**34,356**	**32,604**	**33,331**
Delaware	809	586	549	Alabama	2,594	2,628	2,980
District of Columbia	58	152	54	Florida	12,688	12,297	12,863
Maryland	3,116	2,646	2,645	Georgia	4,955	4,997	4,477
New Jersey	4,021	3,858	3,659	Kentucky	1,752	1,525	1,687
New York	6,045	6,118	5,687	Mississippi	2,706	2,252	2,132
Pennsylvania	6,174	6,313	5,666	North Carolina	4,344	3,740	4,300
Virginia	2,554	2,327	2,784	Puerto Rico	362	251	124
West Virginia	1,229	1,227	942	South Carolina	1,686	1,766	1,870
				Tennessee	2,935	2,924	2,730
GREAT LAKES	**38,072**	**37,825**	**43,206**				
Illinois	7,700	7,983	8,692	**SOUTHWEST**	**35,478**	**34,690**	**33,440**
Indiana	4,207	3,074	4,285	Arkansas	2,977	2,994	2,486
Michigan	7,079	7,065	7,430	Louisiana	3,972	3,742	3,908
Minnesota	4,733	4,493	5,417	New Mexico	2,387	2,323	2,247
North Dakota	1,734	1,705	1,709	Oklahoma	5,634	5,440	5,185
Ohio	7,478	8,162	8,406	Texas	20,414	20,000	19,481
South Dakota	1,360	1,360	1,125				
Wisconsin	3,782	3,983	4,432	**WESTERN**	**36,820**	**35,146**	**37,992**
				Arizona	4,737	4,679	4,976
NEW ENGLAND	**8,025**	**7,861**	**7,224**	California	29,236	27,848	30,873
Connecticut	1,426	1,798	1,686	Hawaii	381	426	623
Maine	1,263	1,109	1,156	Nevada	2,288	2,018	1,520
Massachusetts	2,737	2,959	2,409				
New Hampshire	1,430	1,197	1,202	**Other U.S. Territories**	**188**	**72**	**54**
Rhode Island	510	266	320	**Foreign-Total**	**938**	**778**	**NA**
Vermont	660	532	447				

Column totals may differ from printed totals due to estimation procedures. Source: FAA

FLIGHT HOURS BY TYPE . . .

Estimated Hours Flown in General Aviation by Type of Aircraft
(in Thousands of Hours)

As of December 31	Total	Fixed Wing			Rotocraft		Balloons Dirigibles Gliders
		Piston	Turboprop	Turbojet	Piston	Turbine	
1977	35,791	30,965	1,549	1,165	609	1,259	245
1978	39,409	34,043	1,606	1,194	806	1,421	338
1979	43,340	37,303	1,871	1,259	892	1,664	353
1980	41,016	34,747	2,240	1,332	736	1,603	359
1981	40,704	34,086	2,155	1,387	930	1,754	391
1982	36,457	29,950	2,168	1,611	579	1,771	379
1983	35,249	28,911	2,173	1,473	572	1,700	420

Note: Columns may not add due to rounding and estimation procedures.

Source: FAA

. . . AND PER AIRCRAFT

Active U.S. General Aviation Aircraft and Average Hours Annually Flown Per Aircraft, by Type

	Estimated Active Aircraft					Average Hours/Aircraft/Yr.				
	1983	1982	1981	1980	1979	1983	1982	1981	1980	1979
TOTAL AIRCRAFT	**213,293**	**209,779**	**213,226**	**211,045**	**210,339**	**164**	**174**	**188**	**191**	**206**
Piston Total	**191,480**	**189,195**	**193,370**	**193,014**	**193,470**	**151**	**160**	**175**	**178**	**193**
Single engine	**166,427**	**164,173**	**167,898**	**168,435**	**168,390**	**139**	**149**	**166**	**168**	**180**
1–3 seats	59,199	57,670	59,914	60,505	62,362	140	146	171	166	180
4 + seats	107,228	106,503	107,983	107,930	106,028	139	151	163	170	181
Multi-engine	**24,910**	**24,882**	**25,356**	**24,366**	**24,850**	**231**	**231**	**251**	**255**	**277**
1–6 seats	16,249	16,381	16,749	16,224	16,891	187	187	215	228	238
7 + seats	8,660	8,501	8,607	8,141	7,958	318	317	326	311	359
Other Piston	143	140	114	212	229	240	247	197	625	663
Turboprop Total	**5,453**	**5,186**	**4,660**	**4,090**	**3,579**	**389**	**396**	**470**	**533**	**523**
Twin Engine										
1–12 seats	4,733	4,427	3,968	3,339	2,944	301	356	398	445	426
13 + seats	578	610	557	627	538	1,139	853	989	1,038	1,064
Other Turboprop	142	149	134	123	96	579	394	499	487	466
Turbojet Total	**3,898**	**3,996**	**3,171**	**2,992**	**2,653**	**382**	**404**	**436**	**444**	**475**
Twin Engine	3,447	3,309	2,808	2,551	2,309	392	407	443	456	487
Other	451	687	362	441	343	274	385	377	350	392
Rotocraft Total	**6,540**	**6,169**	**6,974**	**6,001**	**5,864**	**350**	**383**	**391**	**382**	**436**
Piston	2,541	2,419	3,250	2,794	3,123	221	237	285	263	286
Turbine	3,998	3,749	3,724	3,207	2,740	432	474	490	498	608
Other	**5,923**	**5,233**	**5,049**	**4,945**	**4,770**	**71**	**72**	**78**	**75**	**74**

Source: FAA

PILOTS

Active U.S. Pilot Certificates Held
(as of December 31, year indicated)

Category	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Pilot—total	**714,607**	**733,728**	**728,187**	**744,246**	**[R]783,932**	**798,833**	**814,667**	**827,071**	**764,182**	**733,255**	**718,004**	**722,376**
Student	181,905	180,795	176,978	188,801	[R]203,510	204,874	210,180	199,833	179,912	156,361	147,197	150,087
Private	298,921	305,848	305,863	309,005	327,424	337,644	343,276	357,479	328,562	322,294	318,643	320,086
Commercial	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442	168,580	165,093	159,495	155,929
Airline transport	38,139	41,002	42,592	45,072	50,149	55,881	63,652	69,569	70,311	73,471	75,938	79,192
Helicopter (only)	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030	6,453	7,034	7,237	7,532
Glider (only)	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039	7,388	7,842	8,157	8,390
Lighter-than-air[1]	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679	2,976	1,360	1,337	1,166
Nonpilot—total	**304,747**	**314,394**	**323,934**	**334,681**	**348,584**	**362,350**	**377,213**	**393,486**	**398,388**	**420,595**	**432,890**	**447,462**
Mechanic[1]	193,337	198,863	205,436	212,303	220,768	228,743	237,611	250,157	262,705	277,436	288,355	298,028
Parachute rigger[1]	6,941	7,900	8,327	8,718	8,994	9,200	9,831	9,547	9,716	9,893	10,074	10,194
Ground instructor[1]	46,827	49,249	51,365	53,464	55,717	57,738	59,680	61,550	63,246	65,004	66,385	67,463
Dispatcher[1]	5,527	5,576	5,741	5,838	5,972	6,161	6,446	6,799	7,094	7,580	8,223	8,980
Control tower operator	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130	15,528[a]	20,934	19,691	20,660
Flight navigator	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936	1,785	1,695	1,636	1,603
Flight engineer	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367	38,294	38,053	38,546	40,534
Flight instructor certificates	36,795	42,418	44,777	46,236	49,362	52,201	54,398	60,440	57,523	62,492	62,201	61,173
Instrument Ratings[2]	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461	252,535	255,073	254,271	256,584

Source: FAA

*Glider and lighter-than-air pilots are not required to have a medical examination; however the totals above represent pilots who received a medical examination.

**"Flight Instructor Certificates and Ratings" totals ARE NOT included in the "Nonpilot—Total."

[1]No medical examination required. Number presents all certificates on record.

[2]Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.

[a]Does not include approximately 15,000 air traffic controllers. Their medical certificates are no longer processed by the Civil Aeromedical Institute (CAMI). They are being processed by a separate system, and will be included in future counts.

(R) Revised

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month Criteria.

Active U.S. Pilots and Flight Instructors by FAA Region and State (as of December 31, 1983)

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Misc.[2]	Flight Instructor[3]
Total[1]	**718,004**	**147,197**	**318,643**	**159,495**	**75,938**	**16,731**	**62,201**
United States—Total	**699,546**	**144,058**	**315,015**	**153,820**	**70,318**	**16,335**	**61,288**
Alaskan Region—Total	**11,100**	**2,149**	**5,061**	**2,700**	**1,028**	**162**	**922**
Central—Total	**40,518**	**7,138**	**21,563**	**8,362**	**2,863**	**592**	**3,412**
Iowa	9,319	1,648	5,449	1,702	377	143	720
Kansas	11,683	1,921	6,232	2,488	883	159	980
Missouri	13,095	2,466	6,281	2,783	1,322	243	1,245
Nebraska	6,421	1,103	3,601	1,389	281	47	467
Eastern—Total	**91,387**	**21,208**	**38,823**	**19,786**	**8,804**	**2,766**	**8,614**
Delaware	1,566	282	687	360	202	35	188
District of Columbia	632	174	261	134	31	32	42
Maryland	9,198	2,135	4,105	1,994	731	233	809
New Jersey	15,455	3,460	6,371	3,205	2,002	417	1,495
New York	26,640	6,687	11,422	5,464	2,010	1,057	2,402
Pennsylvania	20,787	4,942	9,308	3,972	1,979	586	2,065
Virginia	14,304	2,825	5,388	4,083	1,646	362	1,355
West Virginia	2,805	703	1,281	574	203	44	258
Great Lakes—Total	**121,090**	**24,566**	**61,586**	**23,695**	**9,168**	**2,075**	**10,608**
Illinois	29,348	6,159	14,102	5,690	2,874	523	2,698
Indiana	12,695	2,695	6,494	2,516	786	204	1,160
Michigan	20,136	4,183	10,567	3,638	1,257	491	1,675
Minnesota	15,968	2,786	8,146	3,309	1,564	163	1,317
North Dakota	3,764	843	1,872	911	96	42	272
Ohio	23,954	960	12,063	4,729	1,694	508	2,285
South Dakota	3,051	596	1,629	696	111	19	222
Wisconsin	12,174	2,344	6,713	2,206	786	125	979
New England—Total	**31,937**	**7,680**	**13,351**	**6,216**	**3,848**	**842**	**2,711**
Connecticut	8,990	1,978	3,372	1,784	1,637	219	805
Maine	3,558	822	1,663	790	240	43	256
Massachusetts	12,010	3,217	5,407	2,115	894	377	998
New Hampshire	4,115	851	1,450	898	811	105	368
Rhode Island	1,569	368	727	315	121	38	128
Vermont	1,695	444	732	314	145	60	156
N.W. Mountain—Total	**70,387**	**14,097**	**32,364**	**15,091**	**7,060**	**1,775**	**6,283**
Colorado	18,891	4,383	7,328	3,767	2,563	850	1,788
Idaho	4,793	838	2,480	1,119	289	67	454
Montana	4,856	930	2,554	1,068	253	51	414
Oregon	11,360	2,006	5,213	2,383	556	202	937
Utah	5,493	1,146	2,607	1,093	520	127	443
Washington	22,043	4,134	9,647	5,116	2,713	433	2,001
Wyoming	2,951	660	1,535	545	166	45	246
Southern—Total	**110,368**	**22,747**	**44,482**	**27,090**	**13,451**	**2,598**	**9,632**
Alabama	9,250	1,804	3,675	2,675	553	543	1,005
Florida	44,480	8,694	17,567	11,329	6,200	690	3,894
Georgia	16,188	3,175	5,759	3,896	3,023	335	1,311
Kentucky	5,618	1,357	2,559	1,080	400	222	469
Mississippi	5,126	1,115	2,094	1,505	313	99	423
North Carolina	12,387	2,718	5,539	2,756	1,112	262	1,025
South Carolina	6,174	1,417	2,565	1,583	482	127	512
Tennessee	11,145	2,467	4,724	2,266	1,368	320	993
Southwest—Total	**95,633**	**19,981**	**40,278**	**22,772**	**10,663**	**1,939**	**8,630**
Arkansas	6,425	1,364	2,850	1,730	409	72	522
Louisiana	10,625	2,290	4,137	2,971	886	341	975
New Mexico	5,868	1,251	2,693	1,334	398	192	495
Oklahoma	13,963	2,998	6,835	3,013	949	168	1,184
Texas	58,752	12,078	23,763	13,724	8,021	1,166	5,454
Western-Pacific—Total	**127,126**	**24,492**	**57,507**	**28,108**	**13,433**	**3,586**	**10,476**
Arizona	14,457	2,788	6,540	3,321	1,317	491	1,295
California	103,825	19,962	47,795	22,657	10,625	2,786	8,388
Hawaii	3,224	693	894	892	575	170	260
Nevada	5,620	1,049	2,278	1,238	916	139	533
Outside U.S.—Total	**18,458**	**3,139**	**3,628**	**5,675**	**5,620**	**396**	**913**
U.S. Territories—Total[4]	**1,975**	**609**	**692**	**335**	**321**	**18**	**0**
American Samoa	12	0	1	5	6	0	0
Canal Zone	3	1	1	1	0	0	0
Guam	83	16	21	16	30	0	0
Puerto Rico	1,513	499	517	245	235	17	0
Virgin Islands	358	92	150	67	48	1	0
Wake Island	6	1	2	1	2	0	0

Source: FAA

[1]Includes Outside U.S.
[2]Includes helicopter, glider, and lighter-than-air.
[3]Not included in total.
[4]U.S. Territories are included in Outside U.S. total.
Estimated: Data is based on a 25-month criteria.

U.S. Student Pilot Certificates Processed by Month and Year

Month	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Total	**121,543**	**131,384**	**113,997**	**127,424**	**129,280**	**138,816**	**137,032**	**139,956**	**102,301**	**117,962**	**86,731**	**94,981**	**91,395**
January	7,515	7,608	8,200	9,794	11,853	10,247	7,385	12,926	10,462	9,179	7,289	6,726	8,248
February	7,936	8,622	6,195	7,506	6,396	8,010	8,253	10,585	7,835	8,568	6,499	4,859	7,353
March	10,176	9,963	7,661	9,445	10,921	11,921	11,234	9,525	7,872	9,718	6,857	6,893	6,228
April	10,445	10,513	7,690	8,654	10,835	9,871	10,646	9,968	7,775	7,036	5,372	7,304	6,660
May	10,495	10,712	10,013	10,204	10,749	10,286	11,032	9,919	8,510	8,387	5,053	7,667	6,446
June	11,174	12,242	10,970	9,865	10,322	11,573	11,490	9,308	8,577	8,885	6,632	5,811	7,082
July	10,366	13,473	10,261	12,339	12,300	11,372	10,544	13,266	6,941	8,387	6,416	5,330	8,015
August	15,007	14,643	12,431	12,471	12,930	15,262	13,839	16,920	10,590	8,363	8,536	10,407	9,821
September	10,850	11,568	10,320	13,587	12,320	13,987	11,904	12,051	9,936	10,713	8,850	11,913	7,833
October	10,962	11,715	10,863	11,979	8,864	11,678	15,548	11,926	9,186	14,327	8,254	11,214	7,851
November	10,298	12,385	9,770	11,681	12,292	15,114	13,096	12,928	7,052	12,424	8,407	8,529	7,390
December	6,319	7,940	9,353	9,899	9,498	9,495	12,061	6,634	7,565	11,975	8,211	8,328	8,432

Source: FAA

Estimated Total and Instrument Rated Pilots: December 31, 1976–83

Calendar Year	Total Pilots[1]	Instrument Rated Pilots	
		Number	Percent of Total
1983	570,807	254,271	45
1982	576,894	255,073	44
1981	584,270	252,535	43
1980	627,238	260,461	42
1979	604,487	247,096	41
1978	593,959	236,312	40
1977	580,422	226,334	39
1976	555,625	211,364	38

Source: FAA

Estimated: Data is based on a 27-month criteria.
Past years are based on a 25-month criteria.
[1]Excludes student pilots.

Estimated Instrument Ratings Held, By Class of Certificates: December 31, 1983 and 1982

Class of Certificates	1983	1982	Percent Change 1983–1982
Total—All Groups	**254,271**	**255,073**	**0**
Private Pilots—Total	**41,951**	**40,803**	**3**
Private Airplane (only)	38,836	37,865	3
Private Airplane, Private Glider	921	880	5
Private Airplane, Commercial Glider	86	84	2
Private Airplane, Private Helicopter	267	247	8
Private Airplane, Private Glider, Private Helicopter	19	15	27
Private Airplane, Commercial Helicopter	1,797	1,688	6
Private Airplane, Private Gyroplane	4	4	0
Private Airplane, Private Glider, Commercial Helicopter	10	9	11
Private Airplane, Commercial Glider, Commercial Helicopter	10	10	0
Private Airplane, Other	1	1	0
Commercial Pilots—Total	**131,445**	**135,984**	**–3**
Commercial Airplane (only)	111,188	115,441	–4
Commercial Airplane, Private Glider	1,823	1,806	1
Commercial Airplane, Commercial Glider	3,360	3,304	2
Commercial Airplane, Private Helicopter	188	171	10
Commercial Airplane, Commercial Helicopter	14,139	14,533	–3
Commercial Airplane, Private Glider, Commercial Helicopter	138	133	4
Commercial Airplane, Commercial Glider, Commercial Helicopter	558	537	4
Commercial Airplane, Commercial Gyroplane	14	16	–13
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	16	18	–11
Commercial Airplane, Commercial Gyroplane, Commercial Glider	2	2	0
Commercial Airplane, Commercial Glider, Private Helicopter	12	11	9
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter, Commercial Glider	7	12	–42
Airline Transport Pilots—Total	**75,938**	**73,471**	**3**
Airline Transport Airplane	74,752	72,393	3
Airline Transport Airplane, Airline Transport Helicopter	1,186	1,078	10
Rotorcraft Pilots—Total	**4,937**	**4,815**	**3**
Commercial Helicopter	4,864	4,756	2
Airline Transport Helicopter	60	45	33
Rotorcraft Other	13	14	–7

Source: FAA

Women Actively Engaged in U.S. Aviation
(as of December 31, year indicated)

Category of Certificates Held	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Pilot—total	**33,001**	**34,356**	**36,943**	**37,934**	**41,643**	**47,294**	**49,874**	**51,733**	**52,902**	**47,721**	**45,305**	**43,648**	**44,339**
Student	17,053	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006	22,591	19,958	18,696	19,435
Private	13,391	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554	19,602	19,388	18,801	18,616
Commercial	2,196	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,993	4,101	4,257	4,281	4,232
Airline transport	101	95	116	137	160	193	270	361	480	584	749	884	1,032
Helicopter (only)	10	7	5	11	17	18	17	27	55	87	113	144	167
Glider (only)[1]*	201	216	271	301	352	391	433	461	496	540	574	599	631
Lighter-than-air[1]*	49	130	192	200	165	195	227	277	318	216	266	243	226
Nonpilot—total	**3,594**	**3,074**	**3,471**	**3,809**	**4,252**	**4,716**	**5,135**	**5,600**	**6,111**	**6,348**	**7,115**	**7,670**	**8,315**
Mechanic[1]	349	284	315	360	422	505	600	695	890	1,051	1,298	1,493	1,649
Prachute rigger[1]	483	336	495	504	516	535	544	553	562	580	593	605	614
Ground instructor[1]	2,166	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015	3,213	3,391	3,554	3,680
Dispatcher[1]	40	39	42	50	55	65	76	105	141	167	199	249	310
Control tower operator	556	453	473	638	874	1,044	1,151	1,250	1,332	1,147	1,418	1,519	1,724
Flight engineer	0	2	7	8	16	42	82	145	171	189	215	248	336
Flight Navigator	0	0	0	0	0	0	0	0	0	1	1	2	2
Flight instructor**	664	618	834	945	1,054	1,238	1,458	1,699	2,079	2,165	2,532	2,685	2,736

Source: FAA

*Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

**"Flight Instructor" totals ARE NOT included in "Nonpilot—Total."

[1]No medical examination required. Number represents all certificates on record.

NOTE: Instrument ratings not reported.

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.

AIRPORTS AND AERONAUTICAL FACILITIES

U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record by Type of Ownership December 31, 1984

FAA Region and State	Total Facilities	By Ownership		Paved Airports[1]		Unpaved Airports[1]	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Total	**16,075**	**4,806**	**11,269**	**3,446**	**367**	**506**	**1,257**
United States—total*	**16,009**	**4,761**	**6,905**	**3,426**	**362**	**506**	**1,244**
Alaskan—total	**609**	**405**	**204**	**35**	**5**	**50**	**236**
Central—total	**1,430**	**471**	**959**	**376**	**16**	**88**	**96**
Iowa	282	123	159	93	2	40	22
Kansas	384	131	253	101	5	25	27
Missouri	423	122	301	109	6	11	24
Nebraska	341	95	246	73	3	12	23
Eastern—total	**2,048**	**323**	**1,725**	**341**	**28**	**75**	**129**
Delaware	36	4	32	5	0	5	1
District of Columbia	15	7	8	2	0	0	0
Maryland	149	22	127	26	3	5	9
New Jersey	294	36	258	40	3	6	10
New York	480	83	397	84	12	25	51
Pennsylvania	708	78	630	92	6	27	38
Virginia	274	65	209	63	2	5	10
West Virginia	92	28	64	27	2	2	10
Great Lakes—total	**4,027**	**863**	**3,164**	**701**	**27**	**182**	**227**
Illinois	901	99	802	89	1	20	8
Indiana	495	80	415	79	4	9	27
Michigan	427	132	295	116	9	35	64
Minnesota	480	147	333	93	1	36	21
North Dakota	457	94	363	62	4	16	24
Ohio	689	132	557	122	2	28	43
South Dakota	165	75	90	43	1	22	11
Wisconsin	413	104	309	97	5	16	29
New England—total	**508**	**136**	**372**	**115**	**21**	**2**	**46**
Connecticut	104	14	90	19	1	0	5
Maine	143	45	98	29	6	1	22
Massachusetts	129	34	95	37	6	0	6
New Hampshire	54	15	39	16	3	1	7
Rhode Island	18	8	10	6	0	0	0
Vermont	60	20	40	8	5	0	6

(Continued from page 20)

FAA Region and State	Total Facilities	By Ownership		Paved Airports		Unpaved Airports	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Northwest Mountain—total	**1,626**	**655**	**971**	**362**	**67**	**46**	**195**
Colorado	315	91	224	56	10	7	18
Idaho	198	129	69	41	12	2	63
Montana	194	118	76	63	8	14	39
Oregon	336	96	240	53	17	9	27
Utah	97	54	43	39	5	0	7
Washington	385	121	264	79	12	13	29
Wyoming	101	46	55	31	3	1	12
Southern—total	**1,960**	**753**	**1,207**	**621**	**64**	**38**	**100**
Alabama	172	95	77	90	5	3	4
Florida	542	132	410	94	11	10	19
Georgia	301	123	178	101	9	4	4
Kentucky	129	68	61	51	10	1	13
Mississippi	180	82	98	70	13	2	12
North Carolina	288	92	196	81	6	8	36
Puerto Rico	31	14	17	9	2	0	0
South Carolina	139	63	76	52	3	8	9
Tennessee	171	78	93	71	5	2	3
Virgin Islands	7	6	1	2	0	0	0
Southwest—total	**2,541**	**700**	**1,841**	**600**	**65**	**19**	**151**
Arkansas	156	85	71	74	13	0	11
Louisiana	317	77	240	61	6	1	15
New Mexico	167	72	95	44	8	0	22
Oklahoma	335	137	198	113	10	7	40
Texas	1,556	329	1,237	308	28	11	63
Western—total	**1,326**	**500**	**826**	**295**	**74**	**6**	**77**
Arizona	243	89	154	47	9	2	20
California	881	302	579	206	51	1	14
Hawaii	51	17	34	10	3	0	0
Nevada	123	67	56	23	8	3	30
South Pacific**	28	25	3	9	3	0	13

*Excludes Puerto Rico, Virgin Islands, N. Mariana Islands, and South Pacific.

**American Samoa, Guam, and Trust Territories.

[1]**Among public *use* airports only.**

Source: FAA

FAA Air Route Facilities and Services: 1972 through 1983

December 31	VOR VORTAC	Nondirectional Beacons	Air Route Traffic Control Centers	Airport Traffic Control Towers	Combined Station/ Towers	Flight Service Stations	International Flight Service Stations	Instrument Landing Systems	Airport Surveillance Radar
1972	991	706	27	355	42	324	7	403	125
1973	995	739	27	403	29	315	7	467	142
1974	1,000	793	27	417	21	320	7	490	156
1975	1,011	848	26	487	21	321	7	580	177
1976	1,020	920	25	488	16	321	7	640	175
1977	1,021	959	25	495	7	319	7	678	182
1978	1,020	988	25	494	7	319	6	698	185
1979	1,028	1,015	25	499	5	318	6	753	192
1980[R]	1,037	1,055	25	502	4	317	6	796	192
1981	1,033	1,123	25	501	1	316	6	840	199
1982	1,029	1,143	25	492	0	316	6	884	197
1983	1,032[A]	1,183[B]	25[C]	494[D]	0	316	5	934[E]	197[F]

[A]Includes 67 nonfederal and 38 military.

[B]Includes 821 nonfederal and 53 military.

[C]Includes 3 military combined center/radar approach control facilities (CERAP).

[D]Includes 34 federal and 23 military.

[E]Includes 15 Landing Directional Aid (LDA), 98 nonfederal, and 3 military.

[F]Includes 14 military.

Source: FAA

FORECASTS AND OTHER INFORMATION

Estimated Active General Aviation Aircraft by Type of Aircraft
(in Thousands)

As of December 31	Total	Fixed Wing						Balloons/ Dirigibles/ Gliders
		Piston		Turboprop	Turbojet	Rotorcraft		
		Single Engine	Multi-Engine			Piston	Turbine	
Historical								
1979	210.3	168.4	25.1	3.5	2.7	3.1	2.7	4.8
1980	211.0	168.4	24.6	4.1	3.0	2.8	3.2	4.9
1981	213.2	167.9	25.5	4.7	3.2	3.3	3.7	5.0
1982	209.8	164.2	25.0	5.2	4.0	2.4	3.7	5.2
1983	213.3	166.4	25.1	5.5	3.9	2.5	4.0	5.9
Forecast								
1984	210.2	161.9	25.1	6.0	4.2	2.4	4.5	6.1
1985	214.5	164.0	25.6	6.6	4.6	2.4	4.9	6.4
1986	218.9	166.1	26.5	7.1	4.9	2.3	5.3	6.7
1987	223.6	168.4	27.5	7.6	5.2	2.3	5.6	7.0
1988	228.7	170.8	28.8	8.1	5.5	2.3	5.9	7.3
1989	235.0	174.8	29.6	8.6	5.7	2.3	6.3	7.7
1990	241.9	179.6	30.5	9.1	5.9	2.2	6.6	8.0
1991	249.0	184.2	31.4	9.6	6.2	2.2	7.1	8.3
1992	255.7	188.8	32.2	10.1	6.5	2.1	7.4	8.6
1993	261.7	192.5	33.0	10.5	6.7	2.1	8.0	8.9
1994	266.8	195.6	33.7	10.9	6.9	2.1	8.3	9.3
1995	270.5	197.4	34.4	11.4	7.1	2.0	8.6	9.6

Source: FAA

Detail may not add to total because of independent rounding.

An active aircraft must have a current registration and it must have been flown at least 1 hour during the previous calendar year. Includes commuter aircraft with less than 60 seats.

Forecast Active Pilots by Type of Certificate
(thousands)

As of December 31	Total	Students	Private	Commercial	Airline Transport	Helicopter	Glider	Other	Instrument Rated[1]
1984	719.7	145.7	315.4	161.9	79.2	7.5	8.6	1.4	256.9
1985	726.8	149.3	312.2	164.1	82.7	7.9	9.1	1.5	262.0
1986	743.0	153.1	318.4	166.0	86.2	8.2	9.5	1.6	269.0
1987	759.2	156.9	324.8	167.7	89.7	8.5	9.9	1.7	277.1
1988	775.5	160.8	331.3	169.3	93.2	8.8	10.3	1.8	285.5
1989	791.2	164.0	337.9	170.7	96.8	9.1	10.7	2.0	294.0
1990	807.1	167.3	344.7	172.0	100.4	9.4	11.1	2.2	302.8
1991	819.3	170.6	348.1	173.0	103.9	9.7	11.6	2.4	311.9
1992	832.0	174.1	351.6	174.2	107.6	10.0	11.9	2.6	321.3
1993	845.0	178.4	355.1	175.1	111.1	10.3	12.2	2.8	330.9
1994	855.5	182.8	356.8	175.9	114.0	10.6	12.4	3.0	339.8
1995	865.7	187.5	358.7	176.7	116.2	10.9	12.6	3.1	349.0

Detail may not add to total because of rounding.

Source: FAA

(1) Should not be added to other categories in deriving total.

FLIGHT HOURS FORECAST—

Forecast Hours Flown in General Aviation by Type of Aircraft
(millions)

Fiscal Year	Total	Fixed Wing				Rotocraft		Ballons/ Dirigibles/ Gliders
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single Engine	Multi-Engine					
Historical								
1980	41.6	28.8	6.6	2.1	1.3	.8	1.6	.4
1981	41.0	27.9	6.4	2.2	1.5	.9	1.8	.4
1982	37.8	25.2	6.0	2.1	1.6	.7	1.8	.4
1983	36.6	23.8	5.8	2.2	1.7	.6	2.1	.4
1984E	35.6	22.8	5.9	2.4	1.5	.6	1.9	.4
Forecast								
1985	36.7	23.2	6.1	2.5	1.8	.6	2.1	.4
1986	38.0	23.8	6.3	2.7	1.8	.5	2.4	.5
1987	39.2	24.4	6.5	2.8	1.9	.5	2.6	.5
1988	40.5	25.2	6.7	2.9	2.0	.5	2.7	.5
1989	42.0	26.3	6.8	3.0	2.1	.4	2.9	.5
1990	43.7	27.4	6.9	3.2	2.1	.4	3.1	.6
1991	45.3	28.5	7.0	3.3	2.2	.4	3.3	.6
1992	46.8	29.5	7.2	3.4	2.3	.3	3.5	.6
1993	48.3	30.6	7.3	3.5	2.3	.3	3.7	.6
1994	49.4	31.2	7.4	3.6	2.4	.3	3.9	.6
1995	50.4	31.5	7.5	3.8	2.5	.3	4.1	.7
1996	51.5	32.0	7.6	4.0	2.6	.3	4.3	.7

E—Estimate

Source: FAA

Detail may not add to total because of independent rounding.

FUEL USE FORECAST—

Estimated Fuel Consumed by General Aviation by Type of Aircraft
(millions of gallons)

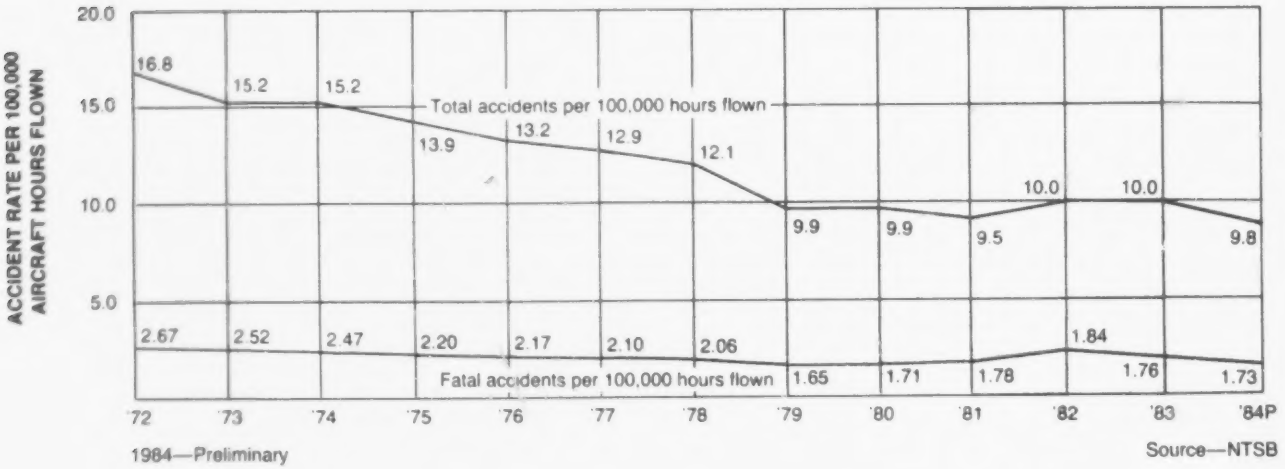
Fiscal Year	Total	Fixed Wing				Rotocraft		Other
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single Engine	Multi-Engine					
Historical								
1980	1,291.0	287.6	231.1	223.9	474.6	13.3	59.7	.8
1981	1,257.3	276.5	206.1	219.6	483.2	13.3	57.8	.8
1982	1,314.2	251.2	197.4	230.8	562.1	9.7	62.5	.5
1983	1,113.9	235.1	189.3	230.9	396.2	7.8	54.2	.4
1984E	1,253.3	227.7	194.8	255.2	504.7	8.2	62.2	.5
Forecast								
1985	1,399.9	230.6	199.9	272.1	614.8	8.2	73.7	.6
1986	1,455.1	236.5	205.7	291.2	632.3	7.2	81.6	.6
1987	1,515.2	243.3	212.3	304.9	658.7	6.9	88.5	.6
1988	1,579.6	250.9	218.8	315.9	693.8	6.8	92.8	.6
1989	1,646.1	261.9	222.9	326.9	720.9	5.8	98.9	.8
1990	1,695.4	273.2	226.2	346.2	737.7	5.4	105.9	.8
1991	1,755.8	283.4	229.5	359.9	764.0	5.3	112.3	.9
1992	1,827.1	294.1	235.3	370.9	799.1	4.5	122.3	.9
1993	1,866.1	304.3	239.4	381.9	807.9	4.2	127.5	.9
1994	1,919.1	310.5	242.7	392.9	834.3	4.1	133.6	1.0
1995	1,987.1	313.9	245.9	412.1	869.5	4.1	140.6	1.0
1996	2,058.1	317.7	249.2	434.1	904.6	4.0	147.5	1.0

E—Estimate

Source: FAA

HISTORICAL SAFETY RECORD

Accident Rates in U.S. General Aviation (1972–1984)



1984—Preliminary

Source—NTSB

AIRCRAFT FUEL CONSUMPTION

General Aviation Fuel Consumed by Type of Aircraft—CY 1983

Aircraft Type	Mean Rate GPH	Estimated Fuel Use (mil gal)	Standard Error (mil gal)
Fixed Wing			
Piston			
1 Eng 1-3 Seats	8.15	66.77	3.6
1 Eng 4+ Seats	11.06	165.52	4.9
Total 1 Eng	10.03	232.29	6.1
2 Eng 1-6 Seats	26.91	81.09	5.4
2 Eng 7+ Seats	35.77	97.17	8.8
Total 2 Eng	31.11	178.26	10.3
Other Piston	263.09	8.54	3.1
Total Piston	**14.50**	**419.09**	**12.4**
Turboprop			
2 Eng 1-12 Seats	75.44	107.98	7.5
2 Eng 13+ Setas	179.57	118.28	27.4
Total 2 Eng	108.26	226.26	28.4
Other Turboprop	35.79	2.98	1.1
Total Turboprop	**105.48**	**229.24**	**28.4**
Turbojet			
2 Eng	211.05	284.83	24.2
Other	385.76	47.70	18.8
Total Turbojet	**225.71**	**322.53**	**30.7**
Total Fixed Wing	**30.13**	**980.86**	**43.6**
Rotocraft			
Piston	13.50	7.72	0.7
Turbine	29.88	50.95	5.3
Total Rotocraft	**25.83**	**58.67**	**5.4**
Other	4.00	1.68	0.2
Total Aircraft	**29.54**	**1041.21**	**43.9**
Total Jet Fuel	114.61	612.72	42.1
Total Aviation Gasoline	14.33	428.49	12.4

Source: FAA

General Aviation Manufacturers Association

The General Aviation Manufacturers Association (GAMA)—a national trade association headquartered in Washington, D.C. represents 36 U.S. manufacturers of general aviation aircraft, engines, avionics, and related items.

Aeroquip Corporation
Aerospace Division
300 South East Avenue
Jackson, Mi 49203
(517) 787-8121

Aire-Sciences, Inc.
216 Passaic Avenue
Fairfield, NJ 07006
(201) 228-1880

The Allied Corporation
Aircraft Systems Company
Bendix Aerospace Sector
1000 Wilson Blvd.
30th Floor
Arlington, VA 22209
(703) 276-2000

AVCO Corporation
Lycoming Stratford Division
550 South Main Street
Stratford, CT 06497
(203) 385-2000

AVCO Corporation
Lycoming Williamsport Division
652 Oliver Street
Williamsport, PA 17701
(717) 323-6181

Aviation Simulation Technology, Inc.
Hanscom Field-East
Bedford, MA 01730
(617) 274-6600

Beech Aircraft Corporation
9709 East Central
Wichita, KS 67201
(316) 681-7111

Century Flight Systems, Inc.
P.O. Box 610
Mineral Wells, TX 76067
(817) 325-2517

Cessna Aircraft Company
P.O. Box 1521
Wichita, KS 67201
(316) 685-9111

Champion Spark Plug Company
900 Upton Avenue
P.O. Box 910
Toledo, OH 43601
(419) 535-2461

Collins Avionics Group
Rockwell International
400 Collins Road NE
Cedar Rapids, IA 52498
(319) 395-1000

Elano Corporation
2455 Dayton-Xenia Road
Xenia, OH 45385
(513) 426-0621

Fairchild Aircraft Corporation
P.O. Box 32486
San Antonio, TX 78284
(512) 824-9421

FlightSafety International, Inc.
Marine Air Terminal
LaGuardia Airport
New York, NY 11371
(718) 565-4100

Garrett Corporation
9851 Sepulveda Blvd.
P.O. Box 92248
Los Angeles, CA 90009
(213) 417-6522

BFGoodrich Company
Aerospace and Defense Division
500 South Main Street
Akron, OH 44318
(216) 374-4511

Goodyear Aerospace Corporation
1210 Massillon Road
Akron, OH 44315
(216) 796-2121

Gulfstream Aerospace Corporation
P.O. Box 2206
Savannah, GA 31402
(912) 964-3000

Honeywell, Inc.
Commercial Aviation Division
P.O. Box 889
Minneapolis, MN 55440
(612) 542-5775

HTL Industries, Inc.
101 East Wheeler Avenue
Arcadia, CA 91006
(818) 574-7880

Jeppesen Sanderson, Inc.
55 Inverness Drive East
Englewood, CO 80112
(303) 799-9090

King Radio Corporation
400 North Rogers Road
Olathe, KS 66062
(913) 782-0400

Marathon Power Technologies
P.O. Box 8233
Waco, TX 76714
(817) 776-0650

McCreary Tire & Rubber Company
1600 Washington Street
Indiana, PA 15701
(412) 349-9010

Midland Ross Corporation
Grimes Division
550 Route 55
P.O. Box 247
Urbana, OH 43078
(513) 652-1431

Pacific Scientific Corporation
Aircraft Products Division
1346 S. State College Blvd.
Anaheim, CA 92803
(714) 774-5217

Parker Hannifin Corporation
Aerospace Group
17325 Euclid Avenue
Cleveland, OH 44112
(216) 531-3000

Piper Aircraft Corporation
P.O. Box 1328
Vero Beach, FL 32960
(305) 567-4361

Rohr Industries
P.O. Box 878
Chula Vista, CA 92012-0878
(619) 691-4111

Sabreliner Corporation
6161 Aviation Drive
St. Louis, MO 63134
(314) 731-2260

Singer Company
8 Stamford Forum
Stamford, CT 06904
(203) 356-4200

Sperry Corporation
Aerospace & Marine Group
P.O. Box 21111
Phoenix, AZ 85036
(602) 869-2311

Teledyne Continental Motors
Aircraft Products Division
P.O. Box 90
Mobile, AL 36601
(205) 438-3411

TRW, Inc.
Hartzell Propeller Products Division
1800 Covington Avenue
P.O. Box 1458
Piqua, OH 45356
(513) 778-4200

Unison Industries, Inc.
Slick Aircraft Products
530 Blackhawk Park Avenue
Rockford, IL 61108
(815) 965-4700

United Technologies Corporation
Pratt & Whitney Canada
1000 Marie-Victorin Blvd.
P.O. Box 10
Lonqueuil, Quebec
Canada J4K 4X9
(514) 677-9411

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